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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/809,688 03/26/2004		03/26/2004	Katsuhiko Yanagihara	31978-201641	8599		
26694	7590	06/20/2006		EXAMINER			
VENABL	E LLP		TUNG, JOYCE				
P.O. BOX 34385 WASHINGTON, DC 20045-9998				ART UNIT	PAPER NUMBER		
				1637			
				DATE MAILED: 06/20/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	pplication No. Applicant(s)						
Office Action Summary			10/809,688		YANAGIHARA ET AL.					
			Examiner		Art Unit					
			Joyce Tung		1637					
Period fo	The MAILING DATE of this communicator Reply	ation appe	ars on the cover sheet w	ith the co	rrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).										
Status										
1)	Responsive to communication(s) filed	on								
2a)□			ction is non-final.							
'=	· -					e merits is				
,—	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims		-							
4)🖂	Claim(s) 1-36 is/are pending in the app	olication.								
· ·	4a) Of the above claim(s) is/are withdrawn from consideration.									
	Claim(s) is/are allowed.									
	Claim(s) is/are rejected.									
	Claim(s) is/are objected to.									
·	Claim(s) <u>1-36</u> are subject to restriction	and/or ele	ection requirement.							
Applicati	on Papers									
9)[]	The specification is objected to by the F	Evaminer								
	9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).										
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.										
	inder 35 U.S.C. § 119	•								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).										
a) All b) Some * c) None of:										
	1. Certified copies of the priority documents have been received.									
	2. Certified copies of the priority documents have been received in Application No									
	3. Copies of the certified copies of the priority documents have been received in this National Stage									
	application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.										
					·					
Attachmen	t(s)									
	e of References Cited (PTO-892)		4) Interview S							
	e of Draftsperson's Patent Drawing Review (PTO nation Disclosure Statement(s) (PTO-1449 or PT			(s)/Mail Date Informal Pa	e tent Application (PTC	D-152)				
	r No(s)/Mail Date		/							

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-31, drawn to a method for detecting a mismatch, polymorphism and the location of the polymorphism in a test double stranded nucleic acid target, classified in class 435, subclass 6.
 - II. Claim 32, drawn to an in vitro reaction mixture, classified in class 536, subclass22.1.
 - III. Claims 33-35, drawn to a kit, classified in class 536, subclass 22.1.
 - IV. Claim 36, drawn to a method for detecting a mismatch in a double stranded nucleic acid target, classified in class 435, subclass 6.
- 2. The inventions are distinct, each from the other because of the following reasons:
 - a. Inventions II-III and I, IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product. See MPEP § 806.05(h). In the instant case, the product groups II-III comprises nucleic acid sequence which can be used in nucleic acid purification.
 - b. Inventions I and IV are distinct if it can be shown that they are not disclosed as capable of use together and they have different designs, modes of operation, and effects (MPEP § 802.01 and § 806.06). In the instant case, the different inventions Groups I and

IV, both are drawn to a method for detecting a mismatch in a test double stranded nucleic acid target in which Group I applies a Mu-end nucleic acid and a phage Mu transposase, While Group IV applies a D108-end nucleic acid and a phase D 108 transposases. They are distinct inventions.

- c. Among Groups II-III, Group II is drawn to an *in vitro* reaction mixture comprising a Mu-end nucleic acid, a phage Mu transposase and a double stranded DNA comprising a mismatch. Group III is drawn to a kit comprising a Mu-end nucleic acid, a phage Mu transposase and means for determining if the Mu-end nucleic acid transposes into the target at a predominant site and/or instruction for determining if the double stranded nucleic acid target contains mismatch.
- 3. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the

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inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joyce Tung whose telephone number is (571) 272-0790. The examiner can normally be reached on Monday Friday, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571 272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joyce Tung June 11, 2006 Page 5

KENNETH R. HORLICK, PH.I.

6/13/06

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